

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**

**(PCT Article 18 and Rules 43 and 44)**

Applicant's or agent's file reference JL-23357-PCT	<b>FOR FURTHER ACTION</b>	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. <b>PCT/KR2004/002771</b>	International filing date ( <i>day/month/year</i> ) <b>30 OCTOBER 2004 (30.10.2004)</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) 30 OCTOBER 2003 (30.10.2003)
Applicant <b>CJ CORPORATION et al</b>		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report.**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box No. II)

3.  **Unity of invention is lacking** (See Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

b.  none of the figure is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002771

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 C07D 501/22**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 07 C07D 501/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
STN (CA, Registry)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/68428 A1 (HANMI PHARM. CO., LTD.) 6 September 2002 See the whole document	1-6
A	WO 02/83692 A1 (HANMI PHARM. CO., LTD.) 24 October 2002 See the whole document	1-6
A	WO 03/11871 A1 (BIOCHEMIE GESELLSCHAFT M.B.H.) 13 February 2003 See the whole document	1-6
A	TAKAYUKI NAITO, et al, 'Synthesis and Structure-Activity Relationships of a New oral Cephalosporin, BMY-28100 And Related Compounds', The Journal of Antibiotics 1987, Vol.40, No.7, pp.991-1005 See the whole document	1-6
A	US 4699979 A (BRISTOL-MEYERS COMPANY) 13 October 1987 See the whole document	1-6

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

04 FEBRUARY 2005 (04.02.2005)

Date of mailing of the international search report

07 FEBRUARY 2005 (07.02.2005)

Name and mailing address of the ISA/KR

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/002771

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02/68428 A1	06.09.2002	US 20020120136 A1	29.08.2002
WO 02/083692 A1	24.10.2002	US 20040132992 A1 EP 1379530 A1	08.07.2004 14.01.2004
WO 03/11871 A2	13.02.2003	US 2004192909 A1 GB 118764 A0 EP 1414827 A2 CA 2454078 AA	30.09.2004 26.09.2001 06.05.2004 13.02.2003
US 4699979 A	13.10.1987	JP 61249989 A2 IT 8620162 A0 GB 8609661 A FR 2580652 A1 DE 3402642 A1	07.11.1986 21.04.1986 29.05.1986 24.10.1986 02.08.1984